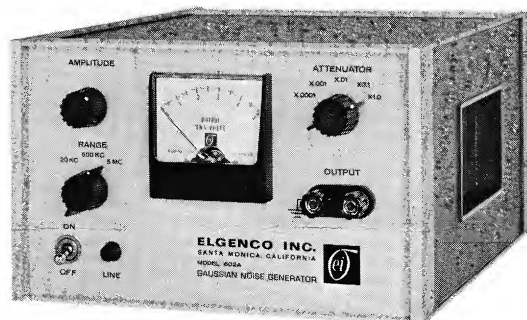


ELGENCO

NOISE GENERATORS

GENERAL PURPOSE SOLID STATE



602A

\$290

FREQ. RANGES: 20 cps to 20 kc, 20 cps to 500 kc, 20 cps to 5 mc.
OUTPUT SPECTRUM: 20 cps to 20 kc — ± 1 db, 20 cps to 500 kc — ± 3 db, 500 kc to 5 mc — ± 8 db.
OUTPUT LEVEL: (open circuit), 20 kc range — 3 volts, 500 kc range — 2 volts, 5 mc range — 1 volt.
OUTPUT IMPEDANCE: 900 ohms $\pm 10\%$
MAXIMUM LOAD: (on direct output) no limit
OUTPUT STEP ATTENUATOR: X1.0, X0.1, X0.01, and X.0001; calibrated to work into open circuit.
 Accuracy: $\pm 3\%$ to 100kc, $\pm 10\%$ to 5 mc
 Output Impedance: 200 ohms $\pm 1\%$
SPECTRAL DENSITY: Approximate spectral density (mv/ $\sqrt{\text{cps}}$) for 1 volt rms output. 20 kc band — 5, 500 kc band — 1.2, 5 mc band — 0.4.
AMPLITUDE PROBABILITY DISTRIBUTION: Symmetrical non-clipped Gaussian waveform all ranges.
OUTPUT METER: 0-5 volts rms.
OPERATING TEMP.: 0 to 50° C.
POWER: 115/230 volts $\pm 10/20$ volts, 50 to 1,000 cycles ac.
PANEL COLOR: Clear anodized brushed aluminum.
DIMENSIONS: 5 1/4" high x 8 5/8" wide x 11" deep.
SHIPPING WEIGHT: Approx. 10 lbs.



603A

\$495

FREQ. RANGES: 10 cps to 20 kc, 10 cps to 500 kc, 10 cps to 5 mc.
OUTPUT SPECTRUM: 20 cps to 20 kc, 20 cps to 500 kc, 500 kc to 5 mc, 10 cps to 500 kc — ± 1 db, 500 kc to 5 mc — ± 3.5 db.
OUTPUT LEVEL: (open circuit) 3 volts rms all ranges.
OUTPUT IMPEDANCE: 200 ohms $\pm 10\%$
MAX. LOAD: (on direct output) 700 ohms
OUTPUT STEP ATTENUATOR: X1.0, X0.1, X0.01, and X.0001; calibrated to work into open circuit.
 Accuracy: $\pm 3\%$ to 500 kc, $\pm 5\%$ to 5 mc.
 Output Impedance: 200 ohms $\pm 1\%$.
SPECTRAL DENSITY: Approximate spectral density (mv/ $\sqrt{\text{cps}}$) for 1 volt rms output. 20 kc band — 5, 500 kc band — 1.2, 5 mc band — 0.4.
AMPLITUDE PROBABILITY DISTRIBUTION: Symmetrical non-clipped Gaussian waveform all ranges.
OUTPUT METER: 0-5 volts rms.
OPERATING TEMP.: 0 to 50° C.
POWER: 115/230 volts $\pm 10/20$ volts, 50 to 1,000 cycles ac.
PANEL COLOR: Clear anodized brushed aluminum.
DIMENSIONS: 5 1/4" high x 8 5/8" wide x 11" deep.
SHIPPING WEIGHT: Approx. 10 lbs.



610A

\$1175

FREQ. RANGES: 10 cps to 2 kc, 10 cps to 5 kc, 10 cps to 20 kc, 10 cps to 50 kc, 10 cps to 200 kc, 10 cps to 500 kc, 10 cps to 2 mc, and 10 cps to 5 mc.
OUTPUT SPECTRUM: Uniform ± 0.5 db from 10 cps to 500 kc and ± 2.0 db from 500 kc to 5 mc.
OUTPUT LEVEL: 0 to 1 volt rms, adjustable by front panel amplitude control. A dynamic range of 5 to 1 peak to rms value is provided.
OUTPUT STEP ATTENUATOR: X1.0, X0.1, X0.01, X.0001. Accuracy $\pm .025$ db/step to 500 kc; ± 0.063 db/step to 5 mc.
SPECTRAL DENSITY: Approx. for 1 volt rms output.

Band	mv/ $\sqrt{\text{cps}}$	Band	mv/ $\sqrt{\text{cps}}$
2 kc	17.5	200 kc	1.75
5 kc	11.0	500 kc	1.10
20 kc	5.5	2 mc	0.55
50 kc	3.5	5 mc	0.30

AMPLITUDE PROBABILITY DISTRIBUTION: Symmetrical Gaussian all ranges.
OUTPUT METER: 0 to 1 volt rms. Accuracy $\pm 2\%$ of full scale to 2 mc; $\pm 5\%$ to 5 mc.
MAXIMUM LOAD: 500 ohms on direct output.
OUTPUT IMPEDANCE: 50 ohms direct output.
POWER REQUIREMENTS: 115/230 volts $\pm 10/20$ volts, 50 to 1,000 cycles ac.
PANEL COLOR: Clear anodized brushed aluminum.
DIMENSIONS: 5 1/4" high x 8 5/8" wide x 11" deep.
SHIPPING WEIGHT: Approximately 11 lbs.



LOW FREQUENCY TUBE TYPE ELGENCO NOISE GENERATORS



301A \$1995

AMPLITUDE PROBABILITY DISTRIBUTION: Gaussian $\pm 1\%$.
OUTPUT SPECTRUM: Uniform ± 0.1 db from 0 to 35 cps.
MAX. OUTPUT: 12 volts rms into a 1 megohm input resistance.
 Dynamic range of 5 to 1 peak-to-rms is provided.
MAX. SPECTRAL DENSITY: Approx. 2.5 volts²/cps.
D.C. UNBALANCE: Less than 50 mv.
POWER: 115 v ± 10 v, 60 cps ac.
MOUNTING: Standard relay rack panel 7" high x 19" wide.
COLOR: Rack panel in flat grey.
SHIPPING WEIGHT: Approx. 40 lbs.

321A \$2095

AMPLITUDE PROBABILITY DISTRIBUTION: Gaussian $\pm 1\%$.
OUTPUT SPECTRUM: Uniform ± 0.1 db from 0 to 105 cps.
MAX. OUTPUT: 12 volts rms into a 1 megohm input resistance.
 Dynamic range of 5 to 1 peak-to-rms is provided.
MAX. SPECTRAL DENSITY: Approx. 1.0 volts²/cps.
D.C. UNBALANCE: Less than 50 mv.
POWER: 115 v ± 10 v, 60 cycles ac.
MOUNTING: Standard relay rack panel 7" high x 19" wide.
COLOR: Rack panel in flat grey.
SHIPPING WEIGHT: 40 lbs.

GENERAL PURPOSE TUBE TYPE ELGENCO NOISE GENERATORS



331A \$1295

OUTPUT SPECTRUM: Uniform to plus or minus 0.5 db from 10 to 20,000 cps.
OUTPUT LEVEL: 0 to 5 volts rms, adjustable by self contained attenuator. A dynamic range of 7 to 1 peak to rms value is provided.
SPECTRAL DENSITY: Approx. 1 mv/ $\sqrt{\text{cps}}$ for 5 volt rms output.
AMPLITUDE PROBABILITY DISTRIBUTION: Gaussian $\pm 1\%$.
NOISE REGULATOR: rms output level continuously stabilized against a zener reference voltage. Output regulation $\pm 0.1\%$ for input range of 2 to 1. Regulation range is greater than 4 to 1.
OVERLOAD INDICATOR: Panel overload indicator lights when input noise level to regulator is out of regulation range.
OUTPUT METER: 0 to 5 volts rms.
MAX. LOAD: 10,000 ohms.
OUTPUT IMPEDANCE: Less than 10 ohms.
POWER REQUIREMENTS: 115/230 volts $\pm 10/20$ volts. 50 to 1,000 cycles AC.
COLOR: Rack panel is flat grey.
MOUNTING: Standard relay rack panel 7" high x 19" wide and is 15" deep. Can be supplied in deluxe metal cabinet.
SHIPPING WEIGHT: Approx. 50 lbs.

331A-23	10 cps to 2 kc	\$1395
331A-53	10 cps to 5 kc	\$1395
331A-54	10 cps to 50 kc	\$1395
331A-25	10 cps to 200 kc	\$1495
331A-55	10 cps to 500 kc	\$1645

DUAL OUTPUT TUBE TYPE ELGENCO NOISE GENERATORS



Amp. Probability Dist.
 Output Spectrum
 Max. Output
 Max. Spectral Density
 DC Unbalance
 Output Load
 Power
 Mounting
 Color
 Shipping Weight

311A
 Gaussian $\pm 1\%$
 Uniform $\pm .1$ db 0 to 35 cps
 12 volts rms
 2.5 (volts)²/cps approx.
 Less than 50 mv
 1 megohm minimum
 115v ± 10 v, 50/60 cps at 90 watts
 Standard relay rack 7" high x
 19" long or deluxe cabinet
 Rack panel is flat grey
 Approximately 45 lbs.

\$2395

312A
 Gaussian $\pm 2\%$
 Uniform $\pm .5$ db, 10 cps to 20 kc
 15 volts rms
 7.5 (mv)²/cps approx.
 100k ohms minimum

\$2495

Gaussian $\pm 1\%$
 Uniform ± 0.1 db 0 to 105 cps
 12 volts rms
 1.0 (volts)²/cps approx.
 Less than 50 mv
 1 megohm minimum

Phone, wire, write your local Elgenco Rep for fast service



statistical instruments for industry

NOISE GENERATOR PRICE LIST

May 1, 1965

General Purpose Solid State Noise Generator

Model 602A 20 cps to 5 mc (cabinet)	\$290.00
Model 603A 20 cps to 5 mc (cabinet)	\$495.00
Model 610A 10 cps to 5 mc (cabinet)	\$1,175.00

Options Available For the Above Solid State Instruments

1. Rechargeable battery	Add	\$135.00
2. Full rack width cabinet and rack mounting hardware	Add	\$30.00

Accessories Available For the Above Solid State Instruments

1. Adaptor kit - Dual unit and rack mounting hardware	\$7.00
2. Adaptor kit - Single unit rack mounting	\$56.00
3. Rechargeable battery kit	\$145.00

General Purpose Tube Type Noise Generators

Model 331A 10 cps to 20 kc (rack mounted)	\$1,295.00
Model 331A-23 10 cps to 2 kc (rack mounted)	\$1,395.00
Model 331A-53 10 cps to 5 kc (rack mounted)	\$1,395.00
Model 331A-54 10 cps to 50 kc (rack mounted)	\$1,395.00
Model 331A-25 10 cps to 200 kc (rack mounted)	\$1,495.00
Model 331A-55 10 cps to 500 kc (rack mounted)	\$1,645.00

Low Frequency Tube Type Noise Generators

Model 301A DC to 40 cps (rack mounted)	\$1,995.00
Model 311A Dual Output DC to 40 cps, 10 cps to 20 kc (rack mounted)	\$2,395.00
Model 312A Dual Output DC to 120 cps, 10 cps to 20 kc (rack mounted)	\$2,495.00
Model 321A DC to 120 cps (rack mounted)	\$2,095.00

Deluxe cabinet for tube type Noise Generators	Add	\$48.00
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PRICES

All prices are net with no discounts. Prices are FOB our plant and are exclusive of all taxes now in effect or that may be imposed hereafter by federal, state, or local governments. Prices given are subject to change without notice. Formal price quotations remain in effect for 30 days in the United States and Canada, 60 days in other areas.

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A surcharge of 1 per cent (\$2.50 minimum) applies on all orders requiring inspection at our plant either by one of the government services or by the customer's own inspection department or other private agency. The inspection surcharge applies on each shipment inspected.

TERMS

For customers in the United States and Canada, terms are net 30 days if credit has been arranged; otherwise, unless payment is received before shipment, shipment will be made COD. For customers outside the United States and Canada, terms are confirmed irrevocable letter of credit or cash in advance.

CONDITIONS OF SALE

Determination of prices, terms, and conditions of sale and final acceptance of orders are made only at our plant.

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